

2.0 AOC 1 - TRAINING AREA 31

2.1 LOCATION OF STUDY AREA

Training Area 31 comprises approximately 41 acres within the Cantonment Area at the Fort McClellan, Alabama Army Installation (Fig. 1). The study area boundary was devised by adding a 150-ft buffer outside of the Training Area 31 site boundary.

2.2 AERIAL PHOTOGRAPH QUALITY ISSUES

A few photograph quality issues were encountered during photograph interpretation. They were corrected as follows:

- X **Quality** - In many areas of the photographs, the dynamic range of brightness values was insufficient to distinguish land cover classes. Due to extreme brightness (almost white), ground cover such as grass, bare soil, trails, and roads could not be differentiated. Buildings could only be differentiated from paved areas by stereo viewing. Where appropriate, problem areas of the photographs were subset and image enhancement techniques were applied. Simple adjustments to the brightness and contrast were conducted, or in more severe cases, a histogram equalization in the range of the lookup table was performed on the specific area where interpretation was difficult.
- X **Rectification** - Although second- and third-order transformations were used in the rectification of the digital photographs, all of the photograph rectification within Training Area 31 contained too much error to accurately digitize land use/cover polygons. The primary factor contributing to the error was terrain distortion. To improve the photographic registration of the study area, Training Area 31 was subset from the rectified digital photographs for all photograph years and the newly-created image files were rubber sheeted separately.

2.3 FINDINGS

Complete photographic coverage of the study area was available for eight years of photographic coverage from 1937 to 1994. A total of 293 anomalies were identified in the year-by-year land cover analysis (Fig. 2). All anomalies were inspected to ascertain the cause of each anomaly. All anomalies were resolved except for one unidentified object. Anomalies potentially associated with waste disposal or chemical training activities were determined to be of potential concern and should be assessed by the USAESCH. During the final quality assurance review of the land use/cover anomalies, eight anomalies were determined to be caused by photographic interpretation error. These anomalies are identified as "QA" in Table 1 and will not be discussed further. Of the anomalies identified, 195 were caused by new roads, pre-existing and former roads and trails, construction and removal of buildings, and pre-existing and former cleared areas. The remaining 90 anomalies are of potential concern and were the result of trails, unidentified structures, and the clearing of trees and groundcover.

1937. Four anomalous areas were identified during a visual inspection of the photographs (see Table 1 and Fig. 3a). Two anomalies were the result of roads. The remaining two anomalies are of potential concern and were the result of cleared areas (2 anomalies).

1937 to 1940. Fifteen anomalies were identified during the land cover change analysis for the years 1937 and 1940 (see Table 1 and Fig. 3b). Six anomalies were the result of new and/or pre-existing roads and cleared areas. The remaining nine anomalies are of potential concern and were the result of trails (3 anomalies), the clearing of trees (4 anomalies), and other cleared areas (2 anomalies).

1940 to 1944. Fifty-one anomalies were identified in the land cover analysis for the years 1940 and 1944 (see Table 1 and Fig. 3c). Thirty-one of the anomalies were the result of new, pre-existing, or former roads; former trails; and/or former or pre-existing cleared areas. The remaining twenty anomalies are of potential of concern and were the result of trails (2 anomalies), the clearing of trees (10 anomalies), and other cleared areas (8 anomalies).

1944 to 1954. Eighty-four anomalies were identified during the land cover change analysis for the years 1944 and 1954 (see Table 1 and Fig. 3d). Fifty-nine of the anomalies were the result of new, pre-existing, or former roads; former trails; former or pre-existing cleared areas; and/or the clearing of trees associated with road construction. The remaining twenty-five anomalies are of potential concern and were the result of trails (6 anomalies), the clearing of trees (11 anomalies), and other cleared areas (8 anomalies).

1954 to 1961. Fifty anomalies were identified during the land cover change analysis for the years 1954 and 1961 (see Table 1 and Fig. 3e). Thirty-nine of the anomalies were the result of new roads, pre-existing and former roads, pre-existing and former trails, and/or pre-existing and former cleared areas. The remaining eleven anomalies are of potential concern and were the result of trails (2 anomalies), the clearing of trees (5 anomalies), and other cleared areas (4 anomalies).

1961 to 1969. Forty-six anomalies were identified during the land cover change analysis for the years 1961 and 1969 (see Table 1 and Fig. 3f). Thirty-two of the anomalies were the result of buildings, new roads, pre-existing, and former roads, pre-existing and/or former trails, and pre-existing or former cleared areas. The remaining fourteen anomalies are of potential concern and were the result of trails (9 anomalies), the clearing of trees (4 anomalies), and another cleared area (1 anomaly).

1969 to 1982. Fifteen anomalies were identified during the land cover change analysis for the years 1969 and 1982 (see Table 1 and Fig. 3g). Thirteen of the anomalies were the result of buildings, pre-existing and former roads, former trails, and former cleared areas. The remaining two anomalies are of potential concern and were the result of unidentified objects (1 anomaly) and the clearing of trees (1 anomaly).

1982 to 1994. Twenty anomalies were identified during the land cover change analysis for the years 1982 and 1994 (see Table 1 and Fig. 3h). Thirteen of the anomalies were the result of new, pre-existing, or former roads, buildings, pre-existing unidentified objects, and former or pre-existing cleared areas. The remaining seven anomalies are of potential concern and were the result of the clearing of trees (7 anomalies).

Fig. 1

Fig. 2

Table 1. Training Area 31 - Anomaly Resolution

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
	1	1937	Road	6, 20, 21, 72, 77, 173, 244, 246, 247, 260, 275
Yes	2	1937	Cleared area	7, 23-25, 27-37, 39, 41, 46, 81-86, 90, 91, 171, 173, 180, 240, 244, 245, 260-262, 275
Yes	3	1937	Cleared area	106, 217, 220, 262, 263
	4	1937	Road	16, 18, 58, 60, 64, 66, 68, 70, 124, 125, 142, 144, 156, 157, 190-192, 195, 196, 205, 252-255, 258, 269-271, 284-286, 289, 292, 293
Yes	5	1940	Trees cleared	244, 260, 275
	6	1940	Pre-existing road (first visible 1937)	1, 20, 21, 72, 77, 173, 244, 246, 247, 260, 275
	7	1940	Pre-existing cleared area (first visible 1937)	2, 23, 24, 27, 28, 31-33, 35, 37, 39, 41, 46, 81-86, 90, 91, 171, 173, 180, 240, 244, 245, 260-262, 275
Yes	8	1940	Cleared area	37, 41, 81, 85, 180, 240, 262
Yes	9	1940	Cleared area	23, 27, 28, 90
Yes	10	1940	Trees cleared	43, 90, 241, 262
Yes	11	1940	Trees cleared	92, 171, 226, 262, 279
Yes	12	1940	Trail	45, 171, 279
Yes	13	1940	Trail	45, 98, 100, 109, 173, 174, 226, 238, 244, 260, 262, 265, 275, 277, 278
Yes	14	1940	Trail	49, 51-55, 95, 108, 109, 122, 131, 174, 175, 198, 205, 238, 243, 249, 252, 253, 265, 266, 269, 278, 282-285, 289
Yes	15	1940	Trees cleared	108, 122, 134, 175
	16	1940	Pre-existing road (first visible 1937)	4, 60, 70, 142, 144, 190, 195, 196, 258, 271, 289
	17	1940	Road	57, 62, 68, 70, 124, 136, 137, 142, 156, 157, 190-192, 205, 252-254, 269, 270, 284-286, 292, 293
	18	1940	Pre-existing road (first visible 1937)	4, 68, 125, 205, 252, 269, 284
	19	1940	Road	68, 124, 125, 205, 252, 269, 284
	20	1944	Pre-existing road (first visible 1937)	1, 6, 72, 173, 244, 246, 247, 260, 275
	21	1944	Former road (first visible 1937)	1, 6, 77, 244, 260, 275

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
	22	1944	Road	74-76, 81, 173, 179, 244, 260, 275
	23	1944	Road (former cleared area - first visible 1940)	2, 7, 9, 81, 90, 173, 180, 244, 260, 275
	24	1944	Pre-existing cleared area (first visible 1940)	2, 7, 82, 245, 261
Yes	25	1944	Cleared area	2, 82, 245, 261
Yes	26	1944	Trees cleared	73, 179, 245-247, 261
	27	1944	Former cleared area (first visible 1940)	2, 7, 9
	28	1944	Former cleared area (first visible 1940)	2, 7, 9
	29	1944	Road	2, 81, 90, 180
Yes	30	1944	Trail	2, 83
Yes	31	1944	Trail	2, 7, 83
	32	1944	Former cleared area (first visible 1937)	2, 7
	33	1944	Former cleared area (first visible 1937)	2, 7
Yes	34	1944	Trees cleared	2
	35	1944	Road (former cleared area - first visible 1937)	2, 7, 81, 180
	36	1944	Road	2, 81, 180
	37	1944	Road (former cleared area - first visible 1937)	2, 7, 8, 81, 180
Yes	38	1944	Cleared area	84
	39	1944	Pre-existing cleared area (first visible 1937)	2, 7, 84
Yes	40	1944	Cleared area	85, 86, 171
	41	1944	Pre-existing cleared area (first visible 1937)	2, 7, 8, 85, 86, 171, 240, 262
Yes	42	1944	Cleared Area	85, 240, 262
	43	1944	Road	10, 89, 90, 115, 116, 119, 171, 240, 241, 262, 274
Yes	44	1944	Trees cleared	None
	45	1944	Former trail (first visible 1940)	12, 13, 95, 98, 100, 109, 171, 173, 174, 226, 238, 244, 260, 262, 265, 275, 277-279
	46	1944	Former cleared area (first visible 1940)	2, 7, 91, 173, 244, 260, 275
Yes	47	1944	Cleared area	96, 183-186, 280

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
Yes	48	1944	Trees cleared	80, 91, 95, 96, 108, 122, 132, 134, 135, 173-175, 181, 184-187, 192, 205, 238, 239, 243, 244, 249, 252-254, 260, 265-270, 275, 278, 281-286
	49	1944	Former trail (first visible 1940)	14, 95, 174, 238, 265, 268, 278
Yes	50	1944	Trees cleared	95, 174, 238, 265, 278
	51	1944	Former trail (first visible 1940)	14, 109, 174, 175, 238, 243, 266
	52	1944	Former trail (first visible 1940)	14, 108, 175
	53	1944	Former trail (first visible 1940)	14, 109, 175
	54	1944	Former trail (first visible 1940)	14, 108, 175
	55	1944	Former trail (first visible 1940)	14, 109, 122, 131, 175, 198, 205, 249, 252, 253, 269, 282-285
	56	1944	Road	141, 157, 188, 205, 253, 285, 286
	57	1944	Pre-existing road (first visible 1940)	17, 157
	58	1944	Road	4, 137, 151, 152, 155, 157, 191, 195, 255, 258, 271, 289
Yes	59	1944	Cleared area	142, 143, 195, 196, 258, 271, 289
Yes	60	1944	Cleared area (former road - first visible 1937)	4, 16, 144, 195, 196
Yes	61	1944	Cleared area	144, 145, 196, 290, 291
	62	1944	Former road (first visible 1940)	17
Yes	63	1944	Trees cleared	156, 188, 190, 191, 195, 205, 253, 258, 271, 286, 289
Yes	64	1944	Trees cleared	4, 142, 156, 190, 191, 195, 196, 197, 258, 271, 289, 290, 291
Yes	65	1944	Trees cleared	None
Yes	66	1944	Trees cleared	4, 153, 154, 191-195, 254, 255, 258, 270, 271, 289
Yes	67	1944	Trees cleared	148, 192, 193, 195, 255-258, 270-272, 287, 289
	68	1944	Road (first visible 1940)	4, 17-19, 125, 136, 137, 192, 205, 252-254, 269, 270, 284-286
	69	1944	Road	133, 138, 139, 146, 147, 149, 150, 191, 192, 195, 254, 255, 258, 270, 271, 289
	70	1944	Former road (first visible 1937)	4, 16, 17, 142, 156, 190, 191, 195, 196, 258, 271, 289

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
	71	1954	QA	
	72	1954	Pre-existing road (first visible 1937)	1, 6, 20, 173, 244, 246, 247, 260, 261, 275
	73	1954	Road	26, 173, 179, 245-247, 261
	74	1954	Former road (first visible 1944)	22
	75	1954	Pre-existing road (first visible 1944); part of former road, now part of new road	22, 179
	76	1954	Former road (first visible 1944)	22
	77	1954	Road	1, 6, 21, 173, 183, 244, 260, 275
	78	1954	Trees cleared (associated with new road construction)	None
	79	1954	Trees cleared (associated with new road construction)	184, 280
	80	1954	Road	48, 173, 244, 260, 275
	81	1954	Pre-existing road (first visible 1944)	2, 7, 8, 22, 23, 29, 35-37, 173, 180, 244, 260, 275
	82	1954	Former cleared area (first visible 1944)	2, 7, 24, 25, 245, 261
	83	1954	Former trail (first visible 1944)	2, 7, 30, 31
	84	1954	Former cleared area (partially visible 1937, partially visible 1944)	2, 7, 38, 39
	85	1954	Former cleared area (part first visible 1937, part first visible 1944)	2, 7, 8, 40-42, 240, 262
	86	1954	Road	2, 7, 40, 41, 171
	87	1954	Road	171
	88	1954	Trees cleared (associated with road construction)	None
	89	1954	Pre-existing road (first visible 1944); part of former road, now part of new road	43, 171, 240, 262
	90	1954	Former road (first visible 1944)	2, 7, 9, 10, 23, 29, 43, 240, 241, 262
	91	1954	Road	2, 7, 46, 48, 173, 244, 260, 275
	92	1954	Road	11, 171, 240, 262, 274, 279
	93	1954	Trees cleared (associated with road construction)	226, 262, 279
Yes	94	1954	Trees cleared	243, 266
Yes	95	1954	Cleared area	14, 45, 48-50, 174, 238, 239, 265-268, 278

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
	96	1954	Road	47, 48, 183, 185, 187, 280
	97	1954	Trees cleared (associated with road construction)	184
	98	1954	Trees cleared (associated with road construction)	13, 45, 226, 262
Yes	99	1954	Trees cleared	161, 212, 213, 217, 219, 220, 222, 223, 227, 230, 259, 262-264, 275
	100	1954	Road	13, 45, 160, 164, 166-168, 170-173, 224-226, 229, 244, 260, 262, 275, 279
	101	1954	Trees cleared (associated with road construction)	224, 229, 262
	102	1954	Trees cleared (associated with road construction)	169, 237
Yes	103	1954	Trail	163, 216, 218, 221, 262, 263
Yes	104	1954	Trail	163, 216
Yes	105	1954	Trail	163, 216
Yes	106	1954	Trees cleared	3
	107	1954	Trees cleared (associated with road construction)	None
Yes	108	1954	Cleared area	14, 15, 48, 52, 54, 175, 243, 266
Yes	109	1954	Cleared area	13, 14, 45, 51, 53, 55, 174-176, 233-236, 238, 243, 265, 266, 277, 278
Yes	110	1954	Trail	158, 162, 211, 244, 259, 260, 275
Yes	111	1954	Trees cleared	None
Yes	112	1954	Trees cleared	None
Yes	113	1954	Trees cleared	159, 214, 215
Yes	114	1954	Trees cleared	None
	115	1954	Former road (first visible 1944)	43, 274
	116	1954	Former road (first visible 1944)	43, 274
	117	1954	QA	
	118	1954	QA	
	119	1954	Former road (first visible 1944)	43, 274
Yes	120	1954	Trees cleared	None
Yes	121	1954	Trees cleared	None

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
Yes	122	1954	Trees cleared	14, 15, 48, 55, 177, 198, 200, 231, 248, 249, 282, 283
	123	1954	Road	205, 250-252, 269, 283-285
	124	1954	Road	4, 17, 19, 205, 252, 253, 269, 285, 292
	125	1954	Pre-existing road (first visible 1940)	4, 18, 19, 68, 205, 252, 253, 269, 284, 285, 292
Yes	126	1954	Trail	203, 207, 282, 283
Yes	127	1954	Cleared area	204, 206
Yes	128	1954	Cleared area	201, 202, 209, 248, 249, 282, 283
Yes	129	1954	Trail	199, 249, 282, 283
	130	1954	Road	205, 252, 253, 269, 284, 285
	131	1954	Road	14, 55, 205, 252, 253, 269, 284, 285
	132	1954	Road	48, 205, 252, 253, 269, 282, 284, 285
	133	1954	Former road (first visible 1944)	69, 192, 254, 255
Yes	134	1954	Trees cleared	15, 48
	135	1954	Road	48, 198, 205, 252, 253, 269, 284, 285
	136	1954	Former road (first visible 1940)	17, 68, 192, 286
	137	1954	Former road (first visible 1940)	17, 58, 68, 254, 270
	138	1954	Former road (first visible 1944)	69, 192, 254, 255
	139	1954	Former road (first visible 1944)	69, 254, 270
	140	1954	Tree cleared (associated with road construction)	184, 281, 282
	141	1954	Pre-existing road (first visible 1944)	56, 188, 205, 253, 285, 286
	142	1954	Road	4, 16, 17, 59, 64, 70, 188, 190, 195-197, 258, 271, 286, 289-291
	143	1954	Former cleared area (first visible 1944)	59, 195, 196, 258, 271, 289
	144	1954	Road	4, 16, 60, 61, 195, 196, 258, 271, 289-291
	145	1954	Pre-existing cleared area (first visible 1944); incorrectly coded as forest	61
	146	1954	Former road (first visible 1944)	69, 191
	147	1954	Former road (first visible 1944)	69, 192

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
	148	1954	Road	67, 195, 258, 271, 289
	149	1954	Pre-existing road (first visible 1944); part of former road, now part of new road	69, 193, 195, 258, 271, 289
	150	1954	Former road (first visible 1944)	69, 254, 255
	151	1954	Former road (first visible 1944)	58, 254, 255
	152	1954	Pre-existing road (first visible 1944); part of former road, now part of new road	58, 195, 258, 271, 289
	153	1954	Road	66, 195, 258, 271, 289
Yes	154	1954	Cleared area	66, 191, 194, 258, 271, 289
Yes	155	1954	Cleared area (former road - first visible 1944)	58, 191
Yes	156	1954	Cleared area	4, 17, 63, 64, 70, 191
	157	1954	Former road (first visible 1944)	4, 17, 56-58, 286
	158	1961	Road (former trail in 1954)	110, 211, 244, 259, 260, 275
Yes	159	1961	Trail	113, 214, 215
	160	1961	Former road (first visible 1954)	100
	161	1961	Road	99, 212, 213, 244, 260, 275
	162	1961	Former trail (first visible 1954)	110
	163	1961	Pre-existing trail (first visible 1954)	103-105, 216, 218, 221, 262, 263
	164	1961	Former road (first visible 1954)	100, 223, 224, 262
Yes	165	1961	Trees cleared	224, 262
	166	1961	Former road (first visible 1954)	100, 225, 229, 262
	167	1961	Former road (first visible 1954)	100, 226, 262
	168	1961	Former road (first visible 1954)	100
	169	1961	Pre-existing cleared area (first visible 1954)	102, 237
	170	1961	Former road (first visible 1954)	100, 226, 262
	171	1961	Former road (first visible 1954)	2, 7, 11, 12, 40, 41, 43, 45, 86, 87, 89, 92, 100, 240, 262, 274, 279
	172	1961	Former road (first visible 1954)	100, 226, 262, 279
	173	1961	Pre-existing road (partially visible 1937; partially visible 1954)	1, 2, 6, 7, 13, 20, 22, 23, 45, 46, 48, 72, 73, 77, 80, 81, 91, 100, 244, 246, 247, 260, 275

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
	174	1961	Pre-existing cleared area (first visible 1954)	13, 14, 45, 48-51, 95, 109, 235, 236, 238, 239, 265-268, 277, 278
	175	1961	Former cleared area (first visible 1954)	14, 15, 48, 51-55, 108, 109, 243, 266
	176	1961	Pre-existing cleared area (first visible 1954)	109, 233, 234
Yes	177	1961	Trail	122, 231
Yes	178	1961	Trees cleared	276
	179	1961	Former road (first visible 1954)	22, 26, 72, 73, 75, 245, 261
	180	1961	Former road (first visible 1944)	2, 7, 8, 23, 29, 35-37, 81
Yes	181	1961	Trees cleared	48
	182	1961	QA	
	183	1961	Former road (first visible 1954)	47, 77, 96, 280
Yes	184	1961	Cleared area	47, 48, 79, 97, 140, 280, 281
	185	1961	Former road (first visible 1954)	47, 48, 96
Yes	186	1961	Cleared area	47, 48
	187	1961	Former road (first visible 1954)	48, 96, 282, 283
	188	1961	Former road (first visible 1954)	56, 63, 141, 142, 286
	189	1961	QA	
	190	1961	Former road (first visible 1954)	4, 16, 17, 63, 64, 70, 142
	191	1961	Former cleared area (first visible 1954)	4, 17, 58, 63, 64, 66, 69, 70, 146, 154-156
Yes	192	1961	Trees cleared	4, 17, 48, 66-69, 133, 136, 138, 147, 256, 257, 271, 272, 286-289
	193	1961	Road	66, 67, 149, 257, 258, 271, 289
	194	1961	Road (former cleared area in 1954)	66, 154, 258, 271, 289
	195	1961	Pre-existing road (first visible 1954)	4, 16, 58, 59, 60, 63, 64, 66, 67, 69, 70, 142-144, 148, 149, 152, 153, 258, 271, 289
	196	1961	Former road (first visible 1954)	4, 16, 59-61, 64, 70, 142-144, 290, 291
	197	1961	Former road (first visible 1954)	64, 142, 255
Yes	198	1961	Cleared area	14, 55, 122, 135, 248, 249, 282, 283
Yes	199	1961	Cleared area (former trail 1954)	129, 249, 282, 283

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
	200	1961	Trees cleared (anomaly actually occurred in 1954 and is associated with road construction; incorrectly coded in 1961)	122, 249, 283
	201	1961	Pre-existing cleared area (first visible 1954)	128, 248, 249, 282, 283
	202	1961	Former cleared area (first visible 1954)	128
	203	1961	Former trail (first visible 1954)	126, 282
	204	1961	Former cleared area (first visible 1954)	127
	205	1961	Pre-existing road (first visible 1954)	4, 14, 17-19, 48, 55, 56, 63, 68, 123- 125, 130-132, 135, 141, 250-253, 269, 283-285, 292, 293
	206	1961	Former cleared area (first visible 1954)	127
	207	1961	Former trail (first visible 1954)	126, 282, 283
Yes	208	1961	Trees cleared	282, 283
	209	1961	Former cleared area (first visible 1954)	128, 249, 282
	210	1961	QA (same as 118)	
	211	1969	Former road (first visible 1954)	110, 158
	212	1969	Former road (first visible 1961)	99, 161
	213	1969	Former road (first visible 1961)	99, 161
	214	1969	Former trail (first visible 1961)	113, 159
	215	1969	Former trail (first visible 1961)	113, 159
	216	1969	Former trail (first visible 1954)	103, 104, 105, 163
	217	1969	Road	3, 99, 263, 274
	218	1969	Road (part of former trail visible 1954)	103, 163, 263
	219	1969	Road	99, 263
Yes	220	1969	Trail	3, 99, 262
	221	1969	Pre-existing trail (first visible 1954)	103, 163, 262
Yes	222	1969	Trail	99, 262
Yes	223	1969	Trail	99, 164, 262
Yes	224	1969	Trail	100, 101, 164, 165, 262
Yes	225	1969	Trail	100, 166, 262

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
Yes	226	1969	Trail	11, 13, 45, 93, 98, 100, 167, 170, 172, 262, 279
Yes	227	1969	Trail	99, 262
	228	1969	QA	
Yes	229	1969	Trees cleared	100, 101, 166
	230	1969	Building	99, 264
	231	1969	Pre-existing trail (first visible 1961)	122, 177
	232	1969	QA (same anomaly as 231)	
	233	1969	Pre-existing cleared area (first visible 1954); incorrectly coded as forest	109, 176
	234	1969	Former cleared area (first visible 1954)	109, 176
	235	1969	Former cleared area (first visible 1954)	109, 174
	236	1969	Former cleared area (first visible 1954)	109, 174
	237	1969	Former cleared area (first visible 1954)	102, 169
	238	1969	Pre-existing cleared area (first visible 1954)	13, 14, 45, 48-51, 95, 109, 174, 265, 266, 277, 278
	239	1969	Building	48, 95, 174, 267, 268, 278
Yes	240	1969	Trail	2, 7, 8, 41-43, 85, 89, 90, 92, 171, 262, 274, 279
Yes	241	1969	Trail	10, 43, 90, 262, 279
Yes	242	1969	Trees cleared	None
Yes	243	1969	Cleared area	14, 48, 51, 94, 108, 109, 175, 266
	244	1969	Pre-existing road (first visible 1954)	1, 2, 5-7, 13, 20-23, 45, 46, 48, 72, 77, 80, 81, 91, 100, 110, 158, 161, 173, 259, 260, 275
	245	1969	Road	2, 7, 24-26, 73, 82, 179, 261
	246	1969	Former road (first visible 1937)	1, 6, 20, 26, 72, 73, 173
	247	1969	Former road (first visible 1937)	1, 6, 20, 26, 72, 73, 173
	248	1969	Former cleared area (first visible 1954)	122, 128, 198, 201
	249	1969	Former cleared area (first visible 1961)	14, 48, 55, 122, 128, 129, 198-201, 209, 282, 283
	250	1969	Pre-existing road (first visible 1954); incorrectly coded as former road	123, 205, 283

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
	251	1969	Pre-existing road (first visible 1954); incorrectly coded as former road	123, 205
	252	1969	Pre-existing road (first visible 1954)	4, 14, 17-19, 48, 55, 68, 123-125, 130-132, 135, 205, 269, 284
	253	1969	Former road (first visible 1954); road narrowed	4, 14, 17, 48, 55, 56, 63, 68, 124, 125, 130-132, 135, 141, 205, 285
Yes	254	1969	Trees cleared	4, 17, 48, 66, 68, 69, 133, 137-139, 150, 151, 273
Yes	255	1969	Trees cleared	4, 58, 66, 67, 69, 133, 138, 150, 151, 197, 273, 288
	256	1969	Building	67, 192, 272, 287
	257	1969	Road (extension of pre-existing road - first visible 1954)	67, 192, 193, 271, 289
	258	1969	Pre-existing road (first visible 1954)	4, 16, 58, 59, 63, 64, 66, 67, 69, 70, 142-144, 148, 149, 152-154, 193-195, 271, 289
	259	1982	Former road (first visible 1961)	99, 110, 158, 244
	260	1982	Pre-existing road (partially visible 1937, partially visible 1954)	1, 2, 5-7, 13, 20-23, 45, 46, 48, 72, 77, 80, 81, 91, 100, 110, 158, 161, 173, 244, 275
	261	1982	Former road (first visible 1969)	2, 7, 24-26, 72, 73, 82, 179, 245
	262	1982	Former trail (first visible 1969)	2, 3, 7, 8, 10, 11, 13, 41-43, 45, 85, 89, 90, 92, 93, 98-101, 103, 163-167, 170-172, 220-227, 240, 241, 274, 279
	263	1982	Former road (first visible 1969)	3, 99, 103, 163, 217-219, 274
	264	1982	Former building (first visible 1969)	99, 230
	265	1982	Pre-existing cleared area (first visible 1954)	13, 14, 45, 48-50, 95, 109, 174, 238, 277, 278
	266	1982	Former cleared area (first visible 1954)	14, 48, 51, 94, 95, 108, 109, 174, 175, 238, 243
	267	1982	Former building	48, 95, 174, 239, 278
	268	1982	Former building	48, 49, 95, 174, 239
	269	1982	Pre-existing road (first visible 1954)	4, 14, 17-19, 48, 55, 68, 123-125, 130-132, 135, 205, 252, 284
Yes	270	1982	Trees cleared	4, 17, 48, 66-69, 137, 139
	271	1982	Pre-existing road (first visible 1954)	4, 16, 58, 59, 63, 64, 66, 67, 69, 70, 142-144, 148, 149, 152-154, 192-195, 257, 258, 289

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
	272	1982	Pre-existing building (first visible 1969)	67, 192, 256, 287
Yes	273	1982	Unidentified object	254, 255, 288
	274	1994	Road	43, 92, 115, 116, 119, 171, 217, 240, 262, 263
	275	1994	Pre-existing road (first visible 1954)	1, 2, 5-7, 13, 20-23, 45, 46, 48, 72, 77, 80, 81, 91, 99, 100, 110, 161, 173, 158, 244, 260
Yes	276	1994	Trees cleared	178
	277	1994	Pre-existing cleared area (first visible 1954)	13, 45, 109, 174, 238, 265
	278	1994	Former cleared area (first visible 1954)	13, 14, 45, 48-50, 95, 109, 174, 238, 239, 265, 267
Yes	279	1994	Trees cleared	11, 12, 45, 92, 93, 100, 171, 172, 226, 240, 241, 262
Yes	280	1994	Trees cleared	47, 79, 96, 183, 184
Yes	281	1994	Trees cleared	48, 140, 184
Yes	282	1994	Trees cleared	14, 48, 55, 122, 126, 128, 129, 132, 140, 187, 198, 199, 201, 203, 207-209, 249
	283	1994	Road (pre-existing road widened)	14, 48, 55, 122, 123, 126, 128, 129, 187, 198-201, 205, 207, 208, 249, 250
	284	1994	Pre-existing road (first visible 1954)	4, 14, 17-19, 48, 55, 68, 123, 125, 130-132, 135, 205, 252, 269
	285	1994	Road (pre-existing road widened)	4, 14, 17, 48, 55, 56, 68, 123-125, 130-132, 135, 141, 205, 253
	286	1994	Trees cleared (associated with road construction)	4, 17, 48, 56, 63, 68, 136, 141, 142, 157, 188, 192
	287	1994	Pre-existing building (first visible 1969)	67, 192, 256, 272
	288	1994	Pre-existing unidentified object (first visible 1984)	255, 273
	289	1994	Pre-existing road (first visible 1954)	4, 16, 58, 59, 63, 64, 66, 67, 69, 70, 142-144, 148, 149, 152-154, 192-195, 257, 258, 271
	290	1994	Road (extension of pre-existing road)	61, 64, 142, 144, 196
Yes	291	1994	Trees cleared	61, 64, 142, 144, 196
	292	1994	Road (pre-existing road widened)	4, 17, 125, 205
Yes	293	1994	Trees cleared	4, 17, 205

¹ Related anomalies refer to anomalies which are carried forward from year to year (e.g., a trail), anomalies which change (e.g., the extension or widening of a trail or cleared area), or anomalies that occupy the same geographic location in different years.

Fig. 3a

Fig. 3b

Fig. 3c

Fig. 3d

Fig. 3e

Fig. 3f

Fig. 3g

Fig. 3h

2.4 ANOMALIES OF POTENTIAL CONCERN

Two hundred eighty-five anomalies were identified during the photographic interpretation of Training Area 31. All anomalies have been resolved except for one unidentified object. Ninety anomalies are considered to be of potential concern. To facilitate anomaly tracking, the anomalies of potential concern were mapped using the anomaly tracking number assigned in the year-by-year analysis (see Table 2 and Fig. 4). Table 2 provides information for each anomaly of potential concern, including the anomaly tracking number, coordinates for the approximate center of the anomaly (coordinates provided in Alabama State Plane East, North American Datum [NAD] 83), the year the change occurred, and the reason for the anomaly.

Table 2. Training Area 31 - Anomalies of Concern

Anomaly #	Alabama State Plane Coordinates (approximate anomaly center)		Year of Change	Discussion
	X-Coordinate	Y-Coordinate		
2	674056.66432	1176575.38021	1937	This area was cleared prior to the 1937. Although reduced in size, most of the area remained clear in the 1940 and 1944 photographs. By 1954, activity was still underway in this area; however, most of the activity was associated with roads and trails. The 1961 photographs show revegetation of the area in progress. By 1969, most of the area had become reforested.
3	674558.77995	1176575.38021	1937	This area was cleared prior to 1937. The 1940 photographs show some ground scarring in this area and the regrowth of grass and/or groundcover. Scrub and trees had begun to grow in the area by 1944. The area was cleared again between 1944 and 1954 (see discussion of anomaly of potential concern 99).
5	673795.80888	1176652.44995	1940	A few trees were cleared from this area between 1937 and 1940. By 1944, major clearing activities had occurred in the western portion of this area and to the west of the study area. The area identified as anomaly of potential concern 5 was completely cleared prior to the acquisition of the 1944 photographs. By 1954, vegetation regrowth was evident in the area.
8	674173.69201	1176614.77936	1940	This area was cleared between 1937 and 1940. The area adjoins the cleared area described above in anomaly of potential concern 2. The area remained clear in 1944, with part of a road passing through it. By 1961, the area was mostly reforested.
9	674014.76920	1176461.74257	1940	This area was cleared between 1937 and 1940. The area adjoins the cleared area described above in anomaly of potential concern 2. From 1944 through 1954, a road passed through this area. By 1961, the area had become reforested.
10	674073.62950	1176506.47640	1940	Trees were cleared from this area prior to the acquisition of the 1940 photographs. A road was present in this location in the 1944 photographs. By 1954, the road was gone and revegetation of the area was underway.
11	674304.36188	1176393.46462	1940	Trees were cleared from this area between 1937 and 1940. This area was at the end of a trail (new in 1940). In 1944, grass or other ground cover was present. By 1954, a road was present in this area.
12	674336.14645	1176371.09771	1940	A new trail was evident in this area in the 1940 photographs. The trail ended at the location of anomaly of potential concern 11 (an area in which trees had been cleared). By 1944, the trail had become overgrown with vegetation. Between 1944 and 1954, this portion of Training Area experienced major changes. Anomalies of potential concern 94, 95, 99, 108, 109, 122, and 134 discuss the changes apparent in the 1954 photographs for this portion of the study area.

Anomaly #	Alabama State Plane Coordinates (approximate anomaly center)		Year of Change	Discussion
	X-Coordinate	Y-Coordinate		
13	674366.75380	1176262.79475	1940	A new trail was evident in this area in the 1940 photographs. The trail ended at the location of anomaly of potential concern 11 (an area in which trees had been cleared). By 1944, the trail had become overgrown with vegetation. Between 1944 and 1954, this portion of Training Area experienced major changes. Anomalies of potential concern 94, 95, 99, 108, 109, 122, and 134 discuss the changes apparent in the 1954 photographs for this portion of the study area.
14	674370.83724	1175888.00178	1940	A new trail was evident in this area in the 1940 photographs. The trail ended at the location of anomaly of potential concern 11 (an area in which trees had been cleared). By 1944, the trail had become overgrown with vegetation. Between 1944 and 1954, this portion of Training Area experienced major changes. Anomalies of potential concern 94, 95, 99, 108, 109, 122, and 134 discuss the changes apparent in the 1954 photographs for this portion of the study area.
15	674275.18925	1175864.08979	1940	Trees were cleared from this portion of the study area between 1937 and 1940. The area remained clear in photographs acquired in 1944. Between 1944 and 1954, major changes occurred within Training Area 31. The eastern portion of this anomalous area was cleared (see anomaly of potential concern 108), while the western portion had begun to revegetate.
25	673955.64845	1176512.74584	1944	This area was cleared between 1937 and 1944. The area had been cleared prior to the acquisition of the 1937 photographs, had begun to revegetate, and was cleared again. By 1954, vegetation regrowth was evident and by 1961, the area had become reforested.
26	673894.24709	1176616.81595	1944	Trees were cleared between 1940 and 1944. Much of the western portion of Training Area 31 was also cleared at this time (see anomalies of potential concern 47, 48, 63, 64, 66, and 67). By 1954, most of this anomalous area had become reforested.
30	674034.74173	1176571.02510	1944	A new trail was evident in the 1944 photographs in this area. By 1954, the trail was no longer evident.
31	674075.32907	1176618.89735	1944	A new trail was evident in the 1944 photographs in this area. By 1954, the trail was no longer evident.
34	674089.89888	1176589.75772	1944	Trees were cleared from this area prior to the acquisition of the 1944 photographs. By 1954, vegetation regrowth was evident in the area.
38	674045.14874	1176691.74642	1944	This area was cleared prior to the acquisition of the 1944 photographs. By 1954, vegetation regrowth was evident in the area.

Anomaly #	Alabama State Plane Coordinates (approximate anomaly center)		Year of Change	Discussion
	X-Coordinate	Y-Coordinate		
40	674263.69596	1176670.93240	1944	This area was cleared prior to the acquisition of the 1944 photographs. By 1954, vegetation regrowth was evident in most of the area; however, a road ran through the eastern edge of the anomalous area. By 1969, the road was no longer present and the area had become reforested.
42	674251.20754	1176568.94370	1944	This area was cleared between 1940 and 1944 and remained clear in the 1954. By 1961, vegetation regrowth was evident.
44	674049.31154	1176505.46094	1944	Trees were cleared in this area prior to the acquisition of the 1944 photographs. By 1954, vegetation regrowth was evident.
47	673793.20859	1176212.74115	1944	This area was cleared between 1940 and 1944. A new road was built in the western portion of this area before 1954. The remainder of the anomalous area had reverted to low ground cover and trees.
48	673991.57526	1175766.41615	1944	Trees were cleared in this area between 1940 and 1944. By 1954, the western portion of this anomalous area had become reforested. The eastern portion was predominantly grass-covered, potentially impacted by activities which occurred between 1944 and 1954. By 1961, most of this anomalous area had become reforested.
50	674386.97378	1176182.34589	1944	Trees were cleared from this small area prior to the acquisition of the 1944 photographs. By 1954, major changes had occurred within Training Area 31 and this area had been cleared again. The area remained clear until sometime between 1982 and 1994. By 1994, vegetation regrowth was evident.
59	673660.02040	1175294.44097	1944	This area was cleared between 1940 and 1944. The area appears to be associated with a road that led to a building outside the study area. The area remained in various stages (cleared and grass-covered) through 1994.
60	673682.41215	1175273.99633	1944	This area was cleared between 1940 and 1944. The area appears to be associated with a road that led to a building outside the study area. The area remained in various stages (cleared and grass-covered) through 1994.
61	673795.34445	1175248.68391	1944	This area was cleared between 1940 and 1944. The area appears to be associated with a road that led to a building outside the study area. The area remained in various stages (cleared and grass-covered) through 1994.
63	673682.98259	1175393.62182	1944	Trees were cleared from this area prior to the acquisition of the 1944 photographs. By 1954, new roads ran through this area.
64	673865.52403	1175285.23784	1944	Trees were cleared from this area prior to the acquisition of the 1944 photographs. By 1954, new roads ran through this area.
65	673916.86381	1175332.77467	1944	Trees were cleared from this area prior to the acquisition of the 1944 photographs. By 1954, new roads ran through this area.

Anomaly #	Alabama State Plane Coordinates (approximate anomaly center)		Year of Change	Discussion
	X-Coordinate	Y-Coordinate		
66	674164.05535	1175336.57762	1944	Trees were cleared from this area prior to the acquisition of the 1944 photographs. By 1954, most of this area had become reforested.
67	674154.54798	1175237.70100	1944	Trees were cleared from this area prior to the acquisition of the 1944 photographs. By 1954, most of this area had become reforested.
94	674320.33851	1176259.65018	1954	Trees were cleared from this area between 1944 and 1954. Vegetation regrowth was underway when the 1961 photographs were acquired. The area was cleared again prior to the acquisition of the 1969 photographs and by 1982, vegetation regrowth had begun again. By 1994, the area had become reforested.
95	674349.58702	1176159.36959	1954	This area was cleared prior to the acquisition of the 1954 photographs. The area remained clear through 1969 and by 1982, vegetation growth was evident in the area (except for the northeastern corner of the area — this area remained clear). By 1994, the entire area had become reforested.
99	674722.85368	1176493.63823	1954	Most of the trees were cleared from this large area between 1944 and 1954. In the 1961 photographs, most of the area remained clear and a road ran through the northeast corner of the area. The 1969 photographs show a new road extending through the middle of this area. The eastern portion of the area remained clear. By 1982, vegetation regrowth was evident throughout the area and by 1994, most of the area had become reforested.
103	674601.68129	1176515.92281	1954	A trail was evident in this area in the 1954 photographs. The trail remained evident in the 1961 photographs. By 1969, the trail was no longer evident and by 1982 vegetation regrowth was underway.
104	674621.18030	1176561.88475	1954	A trail was evident in this area in the 1954 photographs. The trail remained evident in the 1961 photographs. By 1969, the trail was no longer evident and by 1982 vegetation regrowth was underway.
105	674637.89373	1176598.09718	1954	A trail was evident in this area in the 1954 photographs. The trail remained evident in the 1961 photographs. By 1969, the trail was no longer evident and by 1982 vegetation regrowth was underway.
106	674611.43079	1176598.09718	1954	Trees were cleared in this area prior to the acquisition of the 1954 photographs. The area remained predominantly cleared through 1969. By 1982, vegetation regrowth was underway.
108	674318.94573	1175908.66810	1954	This area was cleared prior to the acquisition of the 1954 photographs. The area remained clear in the 1961 photographs. By 1969, vegetation regrowth was underway and by 1982, the area had become reforested.

Anomaly #	Alabama State Plane Coordinates (approximate anomaly center)		Year of Change	Discussion
	X-Coordinate	Y-Coordinate		
109	674573.82557	1175961.59397	1954	This area was cleared between 1944 and 1954. Several tracks and/or trails can be seen crossing the area in the 1954 photographs. The area remained clear in the 1961 photographs. By 1969, vegetation regrowth was underway in most of the area. Photographs acquired in 1982 show that all of the area except the northwestern corner and a small area in the eastern portion of the area had become reforested. The eastern portion of the area underwent the removal of trees prior to the acquisition of the 1994 photographs.
110	674934.55715	1176514.53002	1954	A new trail is evident in the 1954 photographs in this portion of Training Area 31. The trail remains evident in photographs acquired in 1961, 1969, 1982, and 1994.
111	675040.40889	1176552.13525	1954	Trees were cleared in this area between 1944 and 1954. The area remained clear in the 1961 and 1969 photographs. By 1982, vegetation regrowth was evident.
112	675062.69347	1176535.42181	1954	Trees were cleared from this area between 1944 and 1954. The area remained cleared in photographs through 1961. By 1969, vegetation regrowth was underway.
113	675044.58725	1176447.67629	1954	Most of the trees were cleared in this area between 1944 and 1954. By 1961, several large trees were present in the area, as was a trail which cut through the area. By 1969, many large trees remained in this area, but several grass-covered areas also remained. By 1982, the entire area had become reforested.
114	675073.83576	1176304.21933	1954	Trees were cleared in this between 1944 and 1954. By 1961, vegetation regrowth was underway. By 1969, the southern half of this area had become reforested, but the northern half of the area remained grass-covered. By 1981, the area had become reforested.
120	675117.88262	1175859.57239	1954	Most of the trees were cleared from this area between 1944 and 1954. A scrub/shrub groundcover was evident over most of the area. By 1961, vegetation regrowth was evident. The 1969 photographs show that the area had predominantly become reforested. By 1982, the area was completely reforested.
121	675391.21687	1175739.44460	1954	Most of the trees were cleared from this between 1944 and 1954. A scrub/shrub groundcover was evident over most of the area. By 1961, vegetation regrowth was evident. The 1969 photographs show that the area had predominantly become reforested. By 1982, the area was completely reforested.
122	674886.33194	1175666.32333	1954	Most of the trees were cleared from this area prior to the acquisition of the 1954 photographs. The area remained cleared in the 1961 photographs. By 1969, most of the area had become reforested and by 1982, the area was completely reforested.

Anomaly #	Alabama State Plane Coordinates (approximate anomaly center)		Year of Change	Discussion
	X-Coordinate	Y-Coordinate		
126	674825.39755	1175577.53322	1954	A new trail was present in this area in the 1954 photographs. The trail led to cleared areas (as discussed below in anomalies of potential concern 127 and 128). By 1961, the trail was no longer evident, however the cleared areas at the end of the trail remained clear.
127	674672.19109	1175662.84137	1954	This area was cleared between 1944 and 1954. The area remained clear in the 1961 photographs. By 1969, this area had become reforested.
128	674616.47964	1175567.08733	1954	This area was cleared prior to the acquisition of the 1954 photographs. The area remained clear in the 1961 and 1969 photographs. By 1982, vegetation regrowth had begun across the area, but many portions of the area remained clear. Prior to 1994, the area was cleared again.
129	674437.15844	1175490.48409	1954	A new trail was evident in this portion of Training Area 31 in the 1954 photographs. The trail led to the cleared area discussed above (anomaly of potential concern 128). By 1969, the trail was no longer in use.
134	674295.05074	1175685.47414	1954	A few trees were cleared in this area prior to the acquisition of the 1954 photographs. A trail appears to lead the center of this anomaly. By 1961, vegetation regrowth had begun and by 1969, the area had become reforested.
154	673988.42054	1175260.76438	1954	This area was between 1944 and 1954. By 1954, some vegetation regrowth had occurred and by 1969, the area was covered by groundcover and/or scrub/shrub.
155	673941.61769	1175263.95548	1954	This area was cleared between 1944 and 1954. By 1954, some vegetation regrowth had occurred and by 1969, the area was covered by groundcover and/or scrub/shrub.
156	673872.47710	1175313.94944	1954	This area was cleared between 1944 and 1954. By 1954, some vegetation regrowth had occurred and by 1969, the area was covered by groundcover and/or scrub/shrub.
159	674989.89813	1176421.05197	1961	A new trail was evident in this portion of Training Area 31 in the 1961 photographs. The trail was no longer evident in 1969.
165	674599.10546	1176314.57195	1961	Most of the trees were cleared in this area between 1944 and 1954. By 1969, the northern portions of this area had begun to revegetate, while the southern portions remained clear. By 1994, the area had become reforested.
177	674934.90861	1175985.80116	1961	A new trail was evident in this area in the 1961 photographs. The trail was not evident in the 1969 photographs.
178	675324.26050	1175954.92744	1961	Most of the trees were cleared in this area between 1954 and 1961. The area remained predominantly clear in 1969, but by 1982, the area had become reforested.

Anomaly #	Alabama State Plane Coordinates (approximate anomaly center)		Year of Change	Discussion
	X-Coordinate	Y-Coordinate		
181	673965.81689	1176318.55123	1961	Trees were cleared in this area prior to the 1961 photographs. Portions of the area remained clear through 1994.
184	673722.25756	1176045.83339	1961	This area was cleared between 1954 and 1961. Most of the area remained clear in 1969. By 1982, the northern and southern portions of the area had become reforested while the middle of the area remained clear. Most of the area was cleared again between 1982 and 1994.
186	673773.71376	1175990.94678	1961	This area was cleared between 1954 and 1961. The area remained clear in 1969. By 1982, the area had become reforested. Some of the trees were cleared again between 1982 and 1994.
192	674291.70614	1175296.28811	1961	Trees and some of the groundcover were cleared in this area prior to the acquisition of the 1961 photographs. Most of this area remained clear in 1969. The area was cleared between 1982 and 1994. In the 1994 photographs, the area appeared to be maintained for active use.
198	674358.59920	1175560.42993	1961	This area was cleared prior to the acquisition of the 1961 photographs. Vegetation regrowth was underway in 1969. By 1982, the area was predominantly reforested. The eastern portion of this area was cleared again prior to the acquisition of the 1994 photographs.
199	674432.35308	1175484.96084	1961	This area was cleared prior to the acquisition of the 1961 photographs. Vegetation regrowth was underway in 1969. By 1982, the area was completely reforested. The 1994 photographs show a large cleared area which includes the location of this anomalous area.
208	674811.41373	1175502.11290	1961	Trees were cleared in this portion of Training Area 31 prior to the acquisition of the 1961 photographs. By 1969, the area had become reforested. The area was cleared again prior to 1994.
220	674535.09721	1176556.00281	1969	A trail was evident in this portion of Training Area 31 in the 1969 photographs. The trail led to a building (new in 1969). The trail was not evident in the 1982 photographs.
222	674657.20312	1176441.00987	1969	A trail was evident in this portion of Training Area 31 in the 1969 photographs. The trail led to a building (new in 1969). The trail was not evident in the 1982 photographs.
223	674639.42070	1176334.31539	1969	A trail was evident in this portion of Training Area 31 in the 1969 photographs. The trail was not evident in the 1982 photographs.
224	674600.29939	1176292.82309	1969	A trail was evident in this portion of Training Area 31 in the 1969 photographs. The trail was not evident in the 1982 photographs.

Anomaly #	Alabama State Plane Coordinates (approximate anomaly center)		Year of Change	Discussion
	X-Coordinate	Y-Coordinate		
225	674545.76666	1176270.29870	1969	A trail was evident in this portion of Training Area 31 in the 1969 photographs. The trail was not evident in the 1982 photographs.
226	674351.64198	1176313.86561	1969	A trail was evident in this portion of Training Area 31 in the 1969 photographs. The trail was not evident in the 1982 photographs.
227	674506.64535	1176467.09074	1969	A trail was evident in this portion of Training Area 31 in the 1969 photographs. The trail was not evident in the 1982 photographs.
229	674543.39567	1176289.26661	1969	Most of the trees were cleared from this area prior to the acquisition of the 1969 photographs. By 1982, the area had become reforested.
240	674271.76931	1176489.91150	1969	A new trail was evident in this portion of Training Area 31 in the 1969 photographs. The trail led into a forested area. The trail was not evident in the 1982 photographs.
241	674172.48417	1176464.71975	1969	A new trail was evident in this portion of Training Area 31 in the 1969 photographs. The trail led into a forested area. The trail was not evident in the 1982 photographs.
242	674193.23032	1176369.88021	1969	Trees were cleared in this area prior to the acquisition of the 1969 photographs. By 1982, the area had become reforested.
243	674292.51546	1176144.63631	1969	This area was cleared prior to the acquisition of the 1969 photographs (most of the area was previously cleared). By 1982, the area had become reforested.
254	674158.94714	1175347.98646	1969	Trees were cleared in this area between 1961 and 1969. This area remained clear in the 1982 photographs and was grass-covered in the 1994 photographs.
255	674313.92109	1175177.51510	1969	Trees were cleared in this area prior to the acquisition of the 1969 photographs. This area remained clear in the 1982 photographs and contained low ground cover in the 1994 photographs.
270	674065.96276	1175329.38958	1982	Trees were cleared in this area between 1961 and 1969. The 1994 photographs show this area has been maintained (contains grass or low ground cover).
273	674329.41849	1175177.51510	1982	An unidentified object was present at this location in the 1982 photographs. The object remained visible in the 1994 photographs.
276	674899.72266	1176147.65208	1994	Trees were cleared in this area between 1984 and 1994.
279	674276.72734	1176401.80937	1994	Trees were cleared in this area between 1984 and 1994.
280	673756.01484	1176290.22813	1994	Trees were cleared in this area between 1984 and 1994.
281	673678.52786	1175840.80365	1994	Trees were cleared in this area between 1984 and 1994.

Anomaly #	Alabama State Plane Coordinates (approximate anomaly center)		Year of Change	Discussion
	X-Coordinate	Y-Coordinate		
282	674512.28776	1175530.85573	1994	Trees were cleared in this large area between 1984 and 1994.
291	673895.49141	1175230.20625	1994	A few trees were cleared in this area between 1984 and 1994.
293	675163.17839	1175341.78750	1994	Trees were cleared in this area between 1984 and 1994.

Fig 4.